

MES COLLEGE OF ENGINEERING, KUTTIPPURAM  
DEPARTMENT OF COMPUTER APPLICATIONS  
20MCA245 – MINI PROJECT

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**PRO FORMA FOR THE APPROVAL OF THE THIRD SEMESTER MINI PROJECT**

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*(Note: All entries of the pro forma for approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)*

Mini Project Proposal No : \_\_\_\_\_  
(Filled by the Department)

Academic Year : \_\_\_\_2021-2022\_\_\_\_

Year of Admission : \_\_\_\_2020\_\_\_\_

1. Title of the Project : E-commerce Website Based on Rating System

2. Name of the Guide : Mr. Syed Feroze Ahamed M

3. Number of the Student: MES20MCA-2021

4. Student Details (in BLOCK LETTERS)

	Name	Roll Number	Signature
1.	<u>IJAS AHAMMED M</u>	<u>21</u>	<u></u>

Date: 01/12/2021

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**Approval Status :**    Approved / Not Approved

Signature of  
Committee Members }

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**Comments of The Mini Project Guide**

Dated Signature

Initial Submission : \_\_\_\_\_

First Review : \_\_\_\_\_

Second Review : \_\_\_\_\_

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**Comments of The Project Coordinator**

Dated Signature

Initial Submission: \_\_\_\_\_

First Review \_\_\_\_\_

Second Review \_\_\_\_\_

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Final Comments :

Dated Signature of HOD

## **Introduction and Objectives:**

E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace.

The objective of this project is to develop a general-purpose e-commerce store where any product (such as books, CDs, computers, mobile phones, electronic items, and home appliances) can be bought from the comfort of home through the Internet.

An online store is a virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order. At that time, more information will be needed to complete the transaction.

The System takes review of various users, based on the review, system will specify whether the products and services provided by the E-commerce enterprise is good, bad, or worst. We use a database of sentiment-based keywords along with positivity or negativity weight in database and then based on these sentiment keywords mined in user review is ranked. This system is a web application where user will view various products and purchase products online and can give review about the merchandise and online shopping services. This system will help many E-commerce enterprises to improve or maintain their services based on the customer review as well as to improve the merchandise based on the customer review.

## **Problem Definition:**

### **EXISTING SYSTEM**

The existing system recommends product to the user based on the users often search history and it will recommend low quality product to the user. So many users end up buying the low-quality product through the websites.

### **PROPOSED SYSTEM**

In this project the Products are recommended to the customer in the base of most rated and positively reviewed product. Product ratings are actually the user feedback about that product if a product has very poor rating it won't be recommended at first to the customer need to buy good product from a store so that the store should recommend best product to the user rather than the low rated bad products.

## **Basic functionalities:**

A product recommendation is basically a filtering system that seeks to predict and show the items that a user would like to purchase. It may not be entirely accurate, but if it shows you what you like then it is doing its job right.

Recommender systems have become increasingly popular in recent years, and are utilized in a variety of areas including movies, music, news, books, research articles, search queries, social tags, and products in general. Mostly used in the digital domain, majority of today's E-Commerce sites like eBay, Amazon, Alibaba etc make use of their proprietary recommendation algorithms in order to better serve the customers with the products they are bound to like. There are a lot more benefits too, which we cover in the next blogs.

And if set up and configured properly, it can significantly boost revenues, CTRs, conversions, and other important metrics. Moreover, they can have positive effects on the user experience as well, which translates into metrics that are harder to measure but are nonetheless of much importance to online businesses, such as customer satisfaction and retention.

All this is only possible with a recommendations engine. Recommendation engines basically are data filtering tools that make use of algorithms and data to recommend the most relevant items to a particular user. Or in simple terms, they are nothing but an automated form of a “shop counter guy”. You ask him for a product. Not only he shows that product, but also the related ones which you could buy. They are well trained in cross-selling and upselling

### **USER MODULE:**

- Admin
- User
- Shop

#### **ADMIN**

- Approve shop
- View users
- Block/Unblock users
- View ratings
- View complaints and reply

#### **USERS**

- Registration
- View products
- Add reviews
- view offers
- Book products
- Send complaint and view reply
- View booking status
- Send feedback

#### **SHOP**

- Registration
- Add and manage products
- Add offers
- View rating
- View booking
- Update status
- View feedback
- View complaints and send reply

## **Tools / Platform, Hardware and Software Requirements:**

### **HARDWARE REQUIREMENTS**

The selection of hardware is very important in the existence and proper working of any software. Then selection hardware, the size and capacity requirements are also important.

- Processor - Intel x86
- Speed - 1.1 GHz
- RAM - 700 MB (min)
- Hard Disk - 150 MB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVG

### **SOFTWARE REQUIREMENTS**

One of the most difficult tasks is selecting software for the system, once the system requirements is found out then we have to determine whether a particular software package fits for those system requirements. The application requirement:

- Operating System - Windows 7 or Above, Android
- Technology - Python, Java
- Backend - MySQL
- Platform used - JetBrains, PyCharm, Android Studio

- Web Browser - Google Chrome, Fire fox, Microsoft Edge
- Front End - HTML, CSS, JAVASCRIPT
- Frame work - Flask